

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Canceled).

Claim 2 (New): A method for production of sandwich panels with a zigzag corrugated core, the method comprising:

- separate shaping of outer panel skins and a zigzag corrugated core;
- obtaining a crimp profile of the core by sheet blank bending along development zigzag lines and saw-tooth lines marked out on the core, said zigzag lines and said saw-tooth lines intersecting each other; and
- punching holes on the core at intersection points of said zigzag and said saw-tooth lines,

wherein a diameter of the holes is greater than or equal to a maximum sheet blank bending radius.

Claim 3 (New): A method for production of aircraft sandwich panels with a zigzag corrugated core, the method comprising:

- separate shaping of outer panel skins and a zigzag corrugated core, shaping of the core including:
- marking bending lines on a sheet blank, the bending lines including zigzag and saw-tooth lines;
- obtaining a crimp profile of the core by bending said sheet blank along said zigzag lines and said saw-tooth lines, said zigzag lines and said saw-tooth lines intersecting each other;

punching holes on the core at intersection points of said zigzag lines and said saw-tooth lines, a diameter of the holes being greater than or equal to a maximum sheet blank bending radius; and

forming a 3-D structure having a height as a function of lengths of said zigzag lines; and

connecting the core having said 3-D structure with said outer panel skins using an adhesive such that the core is placed between an upper outer panel skin and a lower outer panel skin to form a sandwich panel, the upper outer panel skin and the lower outer panel skin not in contact with each other.

Claim 4 (New): The method according to claim 2, wherein said zigzag and said saw-tooth lines are perpendicular to each other.

Claim 5 (New): The method according to claim 3, wherein said zigzag and said saw-tooth lines are perpendicular to each other.